PATENT COOPERATION TREATY

om .TE	the RNATIONAL SEARCHING AUTHO	ORITY				
To:			PCT			
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
			Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
	licant's or agent's file reference form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below			
	national application No. T/CA2004/000464	International filing date (day/month/year) 29.03.2004		Priority date (day/month/year) 28.03.2003		
	rnational Patent Classification (IPC) or 6T9/00	both national classification	and IPC			
	licant BITAL ACCELERATOR CORPO	DRATION				
1.	This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
☐ Box No. VIII Certain observations on the international application						
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For further options, see Form PC	CT/ISA/220.				
3.	For further details, see notes to l	Form PCT/ISA/220.	· .			
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	ae and mailing address of the ISA		Authorized Officer			

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10/551359 JC12 Rec'd PCT/PTC 28 SEP 2005

WRITTEN OPINION OF THE JUTENNATIONAL SEARCHING AUTHORITY

International application No. PCT/CA2004/000464

	Box	k N	p. I Basis of the opinion				
 With regard to the language, this opinion has been established on the basis of the international ap the language in which it was field, unless otherwise indicated under this item. 							
		lar	is opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search inder Rules 12.3 and 23.1(b)).				
2.			gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:				
	a. t	a. type of material:					
	(a sequence listing				
	(table(s) related to the sequence listing				
	b. fo	b. format of material:					
	{		in written format				
	[_	in computer readable form				
	c. time of filing/furnishing:						
	[contained in the international application as filed.				
	(filed together with the international application in computer readable form.				
	[furnished subsequently to this Authority for the purposes of search.				
3.		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.				
4	Δdc	litio	nal comments:				

International application No. PCT/CA2004/000464

_	Bo	c No. II	Priority						
1.	. The following document has not been furnished:						***		
		\boxtimes	copy of the earlier	application	n whose pr	iority has been	claimed (Rule 43	bis.1 and 66.7(a	1)).
		☐ translation of the earlier application whose priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(b)).						36.7(b)).	
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.								has late.
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.								
3.	Add	litional c	bservations, if nece	essary:					
		•							
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
1.	Sta	tement		•					
	Nov	elty (N)		Yes: No:	Claims Claims	1-11			
	Inve	entive st	ep (IS)	Yes: No:	Claims Claims	1-11			
	Indi	ustrial ap	oplicability (IA)	Yes: No:	Claims Claims	1-11	•		
2.	Cita	itions ar	nd explanations		•			•	

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: EP-A-0 933 943 (NDS LIMITED) 4 September 1999 (1999-09-04).

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows:

"A method for encoding a residual image using basis functions from an overcomplete library..." including the claimed features a) and b.i) (D1, column 1, paragraph 4), taking advantage of the Matching Pursuits technique without excessive computational effort (D1, column 2, paragraph 11).

Hence, D1 attempts to solve the same problem as the one defined in claim 1, namely reducing the computational effort of the Matching Pursuit techniques, however it provides a different solution: D1 reduces the computation effort by determining one or more common factors in the plurality of functions to be matched (D1, column 2, paragraph 13), whereas, the solution proposed in claim 1 reduces the computation effort by "creating a subset of basis functions from the overcomplete library ..." (claimed features b.ii) - b.vi)).

The subject-matter of claim 1, being not known from D1, is therefore new (Article 33(2) PCT).

Furthermore, the solution to the problem of reducing the computational effort of the Matching Pursuit techniques proposed in claim 1 of the present application, namely "creating a subset of basis functions from the overcomplete library ..." (claimed features b.ii) - b.vi)), is considered as involving an inventive step (Article 33(3) PCT) because it is neither known from any document on file nor it appears to be trivial per se.

The technical effect of the claimed distinguishing features b.ii) - b.vi) is explained at page 11 of the description.

The reasoning about claim 1 applies accordingly to claims 10 and 11

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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Claims 2-9 are dependent on claim 1 and as such also meet the requirements of the	
PCT with respect to novelty and inventive step.	
	

As a final remark, it is noted that the acronym "RESA" used in dependent claims 3, 4, 6 is not defined in the claims and has not a common established meaning. Therefore a problem of lack of clarity arises (Article 6 PCT).